

**ABSTRACT OF THE DISCLOSURE**

An anastomosis device is a one piece device for connecting a graft vessel to a target vessel without the use of conventional sutures. The anastomosis device includes an expandable tube configured to have a graft vessel secured to the tube. The device has an expandable linkage positioned at one end of the device and  
5 expansion of this linkage causes a first radially extending flange to fold outward. This first flange abuts an interior wall of a target vessel and a second flange is formed which abuts an exterior wall of the target vessel trapping the target vessel between the two flanges and secures the end of the graft vessel into an opening in the wall of the target vessel. The device greatly increases the speed with which  
10 anastomosis can be performed over known suturing methods and allows anastomosis to be performed in tight spaces.